

Product datasheet for **RG200056**

PPP2R1A (NM_014225) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R1A (NM_014225) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R1A
Synonyms:	MRD36; PP2A-Aalpha; PP2AA; PP2AAALPHA; PR65A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200056 representing NM_014225
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCGCCGACGGCGAGCTCGCTGTACCCATCGCGGTGCTCATAGACGAACCTCCGAATGAGG
 ACGTTCAGCTTCGCCTCAACAGCATCAAGAAGCTGTCCACCATCGCCTTGCCCTTGGGGTTGAAAAGGAC
 CCGAAGTGAGCTTCTGCCTTTCCTTACAGATACCATCTATGATGAAGATGAGGTCTCTGGCCCTGGCA
 GAACAGCTGGAAACCTTCACTACCCTGGTGGGAGGCCAGAGTACGTGCACTGCCTGCTGCCACCCTGG
 AGTCGCTGGCCACAGTGGAGGAGACAGTGGTGGGACAAAGCAGTGGAGTCTTACGGGCCATCTCACA
 CGAGCACTCGCCCTCTGACCTGGAGGCGCACTTTGTGCCGCTAGTGAAGCGGCTGGCGGGCGGCGACTGG
 TTCACCTCCGCACTCGGCCTGCGGCCTTTCTCCGCTGCTACCCCGAGTGTCCAGTGTGTGAAGG
 CGGAACCTCGACAGTACTCCGGAACCTGTGCTCAGATGACACCCCATGGTGGCGGGGCCGAGCCTC
 CAAGCTGGGGGAGTTTGCCAAGGTGCTGGAGCTGGACAACGTCAAGAGTGAGATCATCCCATGTTCTCC
 AACCTGGCCTCTGACGAGCAGGACTCGGTGCGGCTGCTGGCGGTGGAGGCGTGCCTGAACATCGCCAGC
 TTCTGCCCCAGGAGGATCTGGAGGCCCTGGTGTGCCACTCTGCGCCAGGCCGCTGAAGACAAGTCTTG
 GCGGCTCCGCTACATGGTGGCTGACAAGTTCACAGAGCTCCAGAAAGCAGTGGGGCTGAGATCACCAAG
 ACAGACCTGGTCCCTGCCTTCCAGAACCTGATGAAAGACTGTGAGGCCGAGGTGAGGGCCGAGCCTCCC
 ACAAGGTCAAAGAGTTCTGTGAAAACCTCTCAGCTGACTGTGGGAGAATGTGATCATGTCCAGATCTT
 GCCCTGCATCAAGGAGCTGGTGTCCGATGCCAACCAACATGTCAAGTCTGCCCTGGCCTCAGTCATCATG
 GGTCTCTCTCCCATCTTGGGCAAAGACAACACCATCGAGCACCTTTGCCCTCTTCTGGCTCAGCTGA
 AGGATGAGTGGCCTGAGGTACGGCTGAACATCATCTCTAACCTGGACTGTGTGAACGAGGTGATTGGCAT
 CCGGCAGCTGTCCAGTCCCTGCTCCCTGCCATTGTGGAGCTGGCTGAGGACGCCAAGTGGCGGGTGGCG
 CTGGCCATCATTGAGTACATGCCCTCCTGGCTGGACAGCTGGGAGTGGAGTTCTTTGATGAGAACTTA
 ACTCCTTGTGCATGGCCTGGCTTGTGGATCATGTATATGCCATCCGCGAGGCAGCCACCAGCAACCTGAA
 GAAGCTAGTGGAAAAGTTTGGGAAGGAGTGGGCCATGCCACAATCATCCCAAGGTCTTGGCCATGTCC
 GGAGACCCCAACTACCTGCACCGCATGACTACGCTCTTCTGCATCAATGTGCTGTCTGAGGTCTGTGGC
 AGGACATACCACCAAGCACATGCTACCCAGGTTCTGCGCATGGCTGGGACCCGGTGGCAATGTCCG
 CTTCAATGTGGCCAAGTCTCTGCAGAAGATAGGGCCCATCTGGACAACAGCACCTTGCAGAGTGAAGTC
 AAGCCCATCTAGAGAAGCTGACCCAGGACCAGGATGTGGACGTCAAATACTTTGCCAGGAGGCTCTGA
 CTGTTCTGTCTCTCGCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200056 representing NM_014225
 Red=Cloning site Green=Tags(s)

MAAADGDDSLYPIAVLIDELRNEDVQLRLNSIKKLSTIALALGVERTRSELLPFLTDTIYDEDEVLLALA
 EQLGFTFTLVGGPEYVHCLLPPLLESLATVEETVVRDKAVESLRAISHEHSPSDLEAHFVPLVKRLAGGDW
 FTSRTSACGLFVVCYPRVSSAVKAELRQYFRNLCSDDTPMVRRAAASKLGEFAKVLELDNVKSEIIPMFS
 NLASDEQDSVRLLAVEACVNIAQLLPQEDLEALVMPTLRQAAEDKSWRVRYMVADKFTLQKAVGPEITK
 TDLVPAFQNLMDCEAEVRAAASHKVKEFCENLSADCRENVIMSQILPCIKELVSDANQHVKASALASVIM
 GLSPILGKDNTIEHLLPLFLAQLKDECPEVRLNIISNLDVNEVIGIRQLSQSLLPAIVELAEDAKWRVR
 LAIEIEMPLLAGQLGVEFFDEKLNLSLMAWLVDHVYAIREAATSNLKKLVEKFGKEWAHATIIPKVLAMS
 GDPNYLHRMTTLFCINVLSEVCGQDITTKHMLPTVLRMAGDPVANVRFVAKSLQKIGPILDNSTLQSEV
 KPFILEKLTQDQDVVYKFAQEALTVLSLA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_014225

ORF Size: 1767 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_014225.6](#)

RefSeq Size: 2357 bp

RefSeq ORF: 1770 bp

Locus ID: 5518

UniProt ID: [P30153](#)

Cytogenetics: 19q13.41

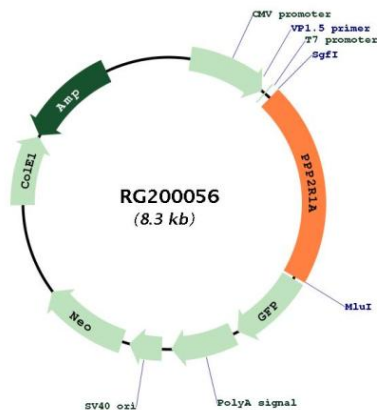
Domains: HEAT, HEAT_PBS

Protein Families: Druggable Genome, Phosphatase, Transcription Factors

Protein Pathways: Long-term depression, Oocyte meiosis, TGF-beta signaling pathway, Tight junction, Wnt signaling pathway

Gene Summary: This gene encodes a constant regulatory subunit of protein phosphatase 2. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The constant regulatory subunit A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. This gene encodes an alpha isoform of the constant regulatory subunit A. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr 2010]

Product images:



Circular map for RG200056